**Abhinav Rakkireddy**

**pythonabhinav@gmail.com**

**(816) 808-2305**

**Python Developer**

**PROFESSIONAL SUMMARY**

* **7+** Years of experience in Analysis, Design, Development, Testing, Customization, Bug fixes, Enhancement,Support and Implementation of various web, stand-alone, client-server enterprise applications using **Python**, **Django** in various domains.
* Experienced with full software development life cycle (**SDLC**), architecting scalable platforms, object oriented programming (**OOPs**), database design and **agile** methodologies.
* Experience in developing web-based applications using **Python 2.7/2.6**, **Django 1.4/1.3**.
* Good experience of software development in **Python** (libraries used**Beautiful Soup**, **numpy**, **scipy**, **matplotlib**, **python-twitter**, **Pandas data frame**, **network**, **urllib2**, **MySQL dB** for database connectivity) and **IDEs** - **sublime text**, **Spyder**, **pycharm**, **emacs**.
* Extensive experience in **system analysis**, **design**, development and implementation of web based and client/server application using **HTML**, **Angular JS**, **Bootstrap**, **underscore JS**, **Node JS**, **CSS**, **JavaScript**, **AJAX**, **JSP**, **JDBC**, **XML**, **XSLT**, **Python**, **Django**.
* Good experience in developing web applications implementing **MVT**/**MVC** architecture using **Django**, **Flask**, **Webapp2** and **spring** web application frameworks.
* Good Experience with **Django**, a **high-level Python** Web framework.
* Experienced in **MVC** frameworks like **Django**, **Angular JS**, **Java Script**, **JQuery** and **Node.js**.
* Experienced in web applications development using **Django/Python**, **Flask/Python**.In addition,**Node.js**, **Angular.js**, **DOJO**, **JQuery** while using **HTML/CSS/JS** for server-side rendered applications.
* Worked closely with designer, tightly integrating Flash into the **CMS** with the use of **Flashvars** stored in the **Django** models. Also created **XML** with **Django** to be used by the **Flash**.
* Good Experience in **Linux Bash scripting** and following **PEP** Guidelines in **Python**.
* Developed consumer based features and applications using **Python**, **Django**, **HTML**, Behavior Driven Development (**BDD**) and pair based programming.
* Using **Django evolution** and manual **SQL**modifications was able to modify **Django** models while retaining all data, while site was in production mode.
* Experienced in monitoring, developing and transforming data using **SQL** Server Integration Service (**SSIS**) and SQL Server Analysis Service (**SSAS**).
* Experienced with databases using **ORMs/DOMs** for integrating with **MySQL**, **Postgres**, **Neo4J**, **MongoDB**, and **Cassandra SQLite**. Also, experienced with writing custom queries through database connectors.
* Expertise in establishing database connections for **Java** and **Python** by configuring packages like **JDBC**, **MySQL**-**Python**.
* Successfully migrated the **Django** database from **SQLite** to **MySQL** to **PostgresSQL** with complete data integrity.
* Architecture, size (Capacity planning), **Data modeling**, implementation and support **Cassandra** Clusters including install, configure and upgrade DSE v3/4 (Cassandra v 1/2.x) and **OpsCenter** v 4.x/5.x on Bare metal and Cloud including **AWS** (Amazon Web Services).
* Configure backup, alerts, repairs and monitoring of **Cassandra** clusters, in conjunction with **Nagios**/**Opscenter** and custom scripts.
* Extensive experience in designing **MongoDB** multi-sharded cluster and monitoring with **MMS**.
* Experience with creating script for data modeling and data import and export. Extensive experience in deploying, managing and developing **MongoDB** clusters.
* Good Knowledge of web services using **SOAP** and **REST** protocols.
* Used **Node.js** as a proxy to interact with **Rest** services and also interacting with **Database**.
* Excellent Experience and knowledge in using **XML**, **SOAP**, web Service for inter operable software applications.
* Good knowledge of version control software – **CVS**, **GitHub**
* Efficient in demonstrating all phases of software development life cycle (requirements, design, architecture, development, testing).
* Experience in working with deployment tools like **Microsoft Azure**, **Heroku** and **Jenkins**.
* Deployed production site using **Apache 2.0** with **mod\_python**.
* Experienced in **Agile** Methodologies, **Scrum** stories and sprints experience in a **Python** based environment, along with **data analytics**, **data wrangling** and **Excel data extracts**.
* Hands on experience with bug tracking tools **JIRA** and **Bugzilla**.
* Skilled in writing and reviewing requirements, architecture documents, test plans, design, documents, quality analysis and audits.
* Skilled in **debugging**/**troubleshooting** issues in complex applications.
* Excellent experience with **Python** development under **Linux OS** (**Debian**, **Ubuntu**, **SUSELinux**, **RedHatLinux**, **Fedora**).
* Experience in Database Administration, development, design, maintenance and production support of relational databases, business applications, new server setup, **MySQL** Server installation, upgrade, migration.
* Reviewed requirement documents with the business and development team to understand the architecture and functionality of the application and consolidated these requirements in appropriate modules in Test strategy.
* Experienced in **Unit testing**, **Integration testing**, **User acceptance testing**, **Functional testing**.
* Experienced in Requirement gathering, Use case development, Business Process flow, Business Process Modeling: extensively used **UML** to develop various use cases, class diagrams and sequence diagrams.

**Technical Skills:**

* ***Primary Languages* :** Python, Java, C
* ***Python Libraries* :** Beautiful Soup, numpy, scipy, matplotlib, python-twitter, Pandas data frame, urllib2
* ***Frameworks* :** Bootstrap, Django, Node.JS, Flask, PyJamas, Pyramid, Hibernate
* ***Database* :** Sqlite3, MSSQL, MySQL, Mongo DB, Oracle 11g
* ***IDE’s* :**PyCharm, Eclipse, NetBeans, MS Visual Studio, PyDev, RIDE
* ***Servers* :**Apache Tomcat, WebSphere, JBoss, WebLogic, XAMPP
* ***Deployment tools* :**MS Azure, Heroku, Amazon Web Services (EC2, S3, EBS, ELB, SES)
* ***Web Technologies*  :** HTML, CSS, DHTML, XML, Java Script
* ***Operating systems* :**Windows, Mac, Fedora Linux, Red hat Linux
* ***SDLC Methods* :**SCRUM, Agile
* ***Testing Frameworks*:** Junit, TestNG, ROBOT, JXL, JTest
* ***Bug Tracking Tools* :** Axosoft, JIRA, Bugzilla, Rational Clear-quest
* ***Version Controls* :** VSS, SVN, Github, Git

|  |
| --- |
| **PROFESSIONAL EXPERIENCE** |

**Q2E-BANKING** August 2016 – Till Date

**Sr. Python Developer**

**Responsibilities**:

* Implemented user interface guidelines and standards throughout the development and maintenance of the website using the **HTML**, **CSS**, **JavaScript** and **JQuery**.
* Developed views and templates with **Python** and **Django's** view controller and templating language to create a user-friendly website interface.
* Refactor **Python**/**Django** modules to deliver certain format of data.
* Managed datasets using Panda data frames and **MySQL**, queried **MYSQL** database queries from python using **Python-MySQL** connector and **MySQLdb** package to retrieve information.
* Utilized **Python** libraries **wxPython**, **numPY**, **Twisted** and **matPlotLib**.
* Wrote **Python** scripts to parse **XML** documents and load the data in **database**.
* Used **Wireshark**, live **http** headers, and **Fiddler2** debugging proxy to debug the **Flash** object and help the developer create a functional component. The **PHP**page for displaying the data uses **AJAX** to sort and display the data. The page also outputs data to .**csv** for viewing in Microsoft Excel.
* **Parsers** written in **Python** for extracting useful data from the design data base.
* Development of **PythonAPIs** to dump the array structures in the Processor at the failure point for **debugging**.
* Involved in development of Web Services using **SOAP** for sending and getting data from the external interface in the **XML** format.
* Written functional **phpunit** test cases for **DataLayer**, and **Searchserver** classes using **Django**, **Curl**, **XML**, **JSON**, **REST** base services, and **MongoDB**.
* Creating **restful** web services for Catalog and Pricing with **DjangoMVT**, **Jersey**, **MySQL**, and **MongoDB**.
* Representation of the system in hierarchy form by defining the components, subcomponents using **Python** and developed set of **library** functions over the system based on the user needs.
* Generated graphical reports using **python** package **Numpy** and **matPlotLib**.
* Usage of advance features like **pickle**/**unpickle** in **python** for sharing the information across the applications.
* Used **Selenium** Library to write fully functioning test **automation** process that allowed the simulation of submitting different requests from multiple browsers to web application.
* Created Data tables utilizing **PyQtto** display customer and policy information and **add**, **delete**, **update** customer records.
* Used **Python** and **Django** creating graphics, **XML** processing, data exchange and business logic implementation.
* Used **Python** based **GUI** components for the front end functionality such as selection criteria. Administration of dedicated collocated **RHEL** 4 machine and configured complex **Apache** configuration files.
* Added support for Amazon **AWSS3** and **RDS** to host static/media files and the database into **AmazonCloud**.
* Writing **Python** scripts with **CloudFormation** templates to automate installation of **Autoscaling**, **EC2**, **VPC**, and other services.
* Developed tools using **Python**, **Shell** scripting, **XML** to automate some of the menial tasks. Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.
* Used third party **JQuery** based plug-ins like **JQueryUI**, **Datatables** etc. Heavily used **JavaScript** for Form Submit and other **UI** elements during development.
* Utilize in-depth knowledge of Technical experience in **LAMP** and other leading-edge products and technology in conjunction with industry and business skills to deliver solutions to customer.
* Representation of the system in hierarchy form by defining the components, subcomponents using **Python** and developed set of **library** functions over the system based on the user needs.
* Used **REST** and **SOAPUI** for testing **webservice** for server side changes.

**Environment: Python 3.4/2.7, Django 1.7, MongoDB, MySQL, AJAX, SOAP, REST, JQuery, JavaScript, Bootstrap, PyCharm, AWS (EC2, S3, RDS).**

**Constant Contact, MA** Jan 2015-July 2016

**Python Developer**

**Responsibilities:**

* Created Python and Bash tools to increase efficiency of call center application system and operations; data conversion scripts, **AMQP**/**RabbitMQ**, **REST**, **JSON**, and **CRUD** scripts for **API** Integration.
* Used Celery with **RabbitMQ**, **MySQL**, **Django**, and **Flask** to create a distributed worker **framework**.
* Recording of Scripts (Web, Web Services HTML) using **Vugen** and **SoapUI** and script validation through co correlations, parameterizations and other methods. Scripting- web and **web services**.
* Application was based on service oriented architecture and used **Python 2.7**, **Django1.5**, **JSF 2**, **Spring 2**, **Ajax**, **HTML**, **CSS** for the frontend.
* Created server monitoring daemon with **Psutil**, supported by **Django** app for analytics which I created. Also researched big data solutions with **Cassandradatabase**.
* Experience with Data migration from **Sqlite3** to **ApacheCassandra** database. **Cassandra** data model designing, implementation, maintaining and monitoring using **DSE**, **DevCentre**, **DatastaxOpscenter**.
* Build the Silent Circle Management System (**SCMC**) in **Django**, **Python**, and **Node.JS** while integrating with infrastructure services.
* Created a **Python**/**Django** based web application using Python scripting for data processing, **MySQL** for the database, and **HTML**/**CSS**/**JQuery** and **HighCharts** for data visualization of the served pages.
* Strong Socket programming experience in **Python**. Implemented complex networking operations like **raceroute**, **SMTP** mail server and **web server**.
* Used existing Deal Model in **Python** to inherit and create object data structure for regulatory reporting.
* Used standard **Python** modules e.g. **csv**, **robotparser**, **itertools**, **pickle**, **jinja2**, **lxml** for development.
* Managed, developed, and designed a **dashboard** control panel for customers and Administrators using **Django**, **HTML**, **CSS**, **JavaScript**, **Bootstrap**, **JQuery** and **RESTAPI** calls.
* Automated RabbitMQ cluster installations and configuration using Python/Bash.
* Used **PandasAPI** to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Deployed the project into **Heroku** using **GIT** version control system.
* Improved the coding standards, code reuse. Increased performance of the extended applications by making effective use of various design patterns (Front Controller, **DAO**).
* Worked on a large scale distributed computing environment, monitoring data nodes to prioritize jobs for processing functions.
* Worked extensively with **Bootstrap**, **Javascript**, and **JQuery** to optimize the user experience.
* Used **Python** and **Django** to interface with the **JQueryUI** and manage the storage and deletion of content.
* Carried out various mathematical operations for calculation purpose using **pythonlibraries**.
* Built various **graphs** for business decision making using **Pythonmatplotlib** library.
* Fetched **twitter** feeds for certain important keyword using **python-twitter** library.
* Used **Python** library **BeautifulSoup** for **webscrapping** to extract data for building **graphs**.
* Performed troubleshooting, fixed and deployed many **Pythonbug** fixes of the two main applications that were a main source of data for both customers and internal customer service team.
* Executing regression tests on each release and verified bugs found from automation test in **Bugzilla**.
* Planning, implementing, and converting manual test cases to **automation** test cases.
* Trained extensively in **agile** methodologies and implemented by participating in **scrum** standups, **Kanban** mode, discussing and implementing requirements with clients.

**Environment: Python, Django, Cassandra, RabbitMQ, Vugen, SoapUI, Node.JS, REST API, Bash, PyDev, Spyder, Agile.**

**EDASSIST, Watertown, MA** Mar 2013-Dec2014

**Python Developer**

**Responsibilities:**

* Used **Django** framework for application development.
* Developed user interface using, **CSS, HTML**, **JavaScrip**t and **Jquery** and **Django**.
* Assisted in reduction of cost and optimization of supplier selection for the **CRM** Applications. Also used methods for cross application use using the Class Builder and Object Oriented programming. Generated an API Reference guide to help application developers for creating the software applications to store data using **DDN S3** (compatible with Amazon S3 API) or **DDN** OpenStack Swift **API** calls.
* Ensured high quality data collection and maintaining the integrity of the data.
* Cleaned data and processed third party spending data into maneuverable deliverables within specific formats with Excel macros and python libraries. Used **TDD** (Test driven development) methodology.
* Used several python libraries like **wxPython, numPY** and **matPlotLib**.
* Was involved in environment, code installation as well as the SVN implementation.
* Build all database mapping classes using **Django** models and **Cassandra**.
* Used **PandasAPI** to put the data as time series and tabular format for east timestamp data manipulation and retrieval.
* Designed and developed data management system using **MySQL**.
* Creating unit test/regression test framework for working/new code.
* This project also used other technologies like **JQuery** for javascript manipulations, bootstrap for the front-end html layout.
* Responsible for debugging and troubleshooting the web application.
* Developed, tested and debugged software tools utilized by clients and internal customers.
* Coded test programs and evaluated existing engineering processes.
* Designed and configured database and backend applications and programs.
* Performed research to explore and identify new technological platforms.

**HYATT CORPORATION, ATLANTA, GA** Oct 2012-Feb 2013

**Python Developer**

**Responsibilities**:

* Translated the customer requirements into design specifications and ensured that the requirements translate into software solution.
* Application was based on service oriented architecture and used **Python 2.5**, **Django 1.5**, **JSF 2**, **Spring 2**, **Ajax**, **HTML**, **CSS** for the frontend.
* Designed the front end of the application using **Python**, **Java**, **HTML**, **CSS**, **AJAX**, **JSON** and **JQuery**. Worked on backend of the application, mainly using Active Records.
* Involved in the design, development and testing phases of application using **AGILE** methodology.
* Developed and designed an **API** (**RESTful** Web Service).
* Used the Python language to develop web-based data retrieval systems.
* Designed and maintained databases using Python and developed Python based **API** (RESTful Web Service) using **Flask**, **SQLAlchemy** and **PostgreSQL**.
* Developed web sites using **Django**, **Python**, **XHTML**, **CSS**, **and JavaScript**.
* Developed and designed e-mail marketing campaigns using **HTML** and **CSS**.
* Tested and implemented applications built using Python.
* Developed and tested many features for dashboard using **Python, ROBOT framework, Bootstrap, CSS, and JavaScript.**
* Created complex dynamic **HTML** UI using **jQuery**.
* Automated Regression analysis for determining fund returns based on index returns (**Python**/**Excel**).
* Worked on development of **SQL** and stored procedures, trigger and function on **MYSQL**.
* Developed shopping cart for Library and integrated web services to access the payment.
* Used **Php** language on **lamp** server to develop page.
* Developed server based web traffic statistical analysis tool using **Flask**, **Pandas**.
* Implemented and tested **python** based web applications interacting with **MySQL**.
* Developed dynamic interaction page on .net **MSvisualbasic**-2014, using **SQL** developer tools.
* Simple web app for reviewing sitcoms that gives users the ability to view, add, review, up/down vote, search, etc.
* Involved in doing **AGILE** (**SCRUM**) practices and planning of sprint attending daily agile (**SCRUM**) meetings and **SPRINT** retrospective meetings to produce quality deliverables within time.

**Environment:Linux, Python, Mod Python, Perl, PHP, MySQL, JavaScript, Ajax, Shell Script, HTML, CSS**

**STRATEOLOGY, Hyderabad** Jan 2011 – Sept 2012

**Java /Python Developer**

**Responsibilities:**

* Involved in Design and development of **UI** screens for Add and Update Lending Application using **Struts** frame work.
* Involved in developing the business components using **JAVA** and **JDBC**.
* Design and development of **UI** screens using **JSP**.
* Managing, training and coordinating the team.
* Developed a new product for the unsecured loans featuring Term Business and personal loans.
* Developed and implemented the user registration and login feature for the application process from scratch by extending **Django** user model.
* Used **Restful web** service calls for the validation.
* Worked with **AJAX** framework to get the **asynchronous** response for the user request and used **JavaScript** for the validation.
* Developed a fully automated continuous integration system using **Git**, **Gerrit**, **Jenkins**, **MySQL** and custom tools developed in **Python** and **Bash**.
* Implemented schema and data migration for the **postgresdatabase** using South migration tool.
* Developed user-friendly modals for the form submissions using simplemodal.js, **JQuery,Ajax** and **JavaScript**.
* Experience in building the war with help the **putty** and deployed into cloud environment using the cloud controller and experience in solving the cloud issue.
* Worked closely with Client managers/Business Analysts of the bank to drive technical solutions, design and provide development estimates for schedule and effort.
* Worked very closely with product owners, project managers and vendors to satisfy all the business needs.
* Designed and developed the **UI** of the website using **HTML, AJAX, CSS, JQuery and JavaScript**.
* Used **Django** framework for database application development.
* Dynamic, hard-working, ability to work in-groups as well as independently with initiative to learn new technologies/tool quickly and emphasis on delivering quality services.
* Have strong ability to build productive relationships with peers, management, and clients using strong communication, interpersonal, organizational, and planning skills.

**Environment: Java, Python, Django, J2EE, JSP, Oracle, Eclipse, MySQL, Linux, HTML, CSS, AJAX, JavaScript,**

**SUNERA TECHNOLOGIES, Hyderabad, India** Aug 2009 – Dec 2010

**Java Developer**

**Responsibilities:**

* Developed application service components and configured beans using **Spring IOC**, creation of **Hibernate** mapping files and generation of database schema.
* Implemented modules using **Core Java APIs**, **Java collection**, **Threads**, **XML**, and integrating the modules.
* Developed Reporting framework using **JAVA** and **J2EE** which will generate daily, monthly and yearly reports and prepared different framework design documents.
* Created tables, views, Types, triggers, complex join queries, stored procedures, and functions and modifications to existing database structure as required for addition of new features using **SQL developer**.
* Involved in web designing using **HTML 4/5**, **XHTML**, **CSS 2/3**, **JQuery**, **JavaScript** extensively used Table less Design in **CSS** for positioning.
* Used **MVC** Architecture in spring framework and implemented custom tag libraries.
* Generated Use case diagrams, Activity flow diagrams, Class diagrams and Object diagrams in the design phase.
* Used **Java/J2EE** Design Patterns such as Business Delegate, Session Facade, singleton in the project extensively, which facilitates clean distribution of roles and responsibilities across various layers of processing.
* Configured Hibernate second level cache using **EHCache** to reduce the number of hits to the configuration table data.
* Extensively Used Ant tool to build and configure **J2EE** applications and used **Log4J** for logging in the application.
* Implemented client side validations for Search and Security modules using **JavaScript** and Validation Framework.
* Responsible for design and implementation of various modules of the application using **Struts-Spring-Hibernate** architecture.
* Automated the **HTML** and **JSP** pages indexing process of search module using **ApacheAnt** tool and singleton design pattern.
* Tested **JSPs** and Servlets used in search, security and scheduler modules using **Cactus API**.
* Done extensive coding using **Java**, **J2EE** for enhancements and bug fixes in **agile** development environment.

**Environment:Java, J2EE, JSP, Struts, Hibernate, HTML, Eclipse, Apache Ant, JavaScript, JQuery, Oracle 10g, Windows XP**

**Education:** B-Tech/EEE/JNTUH, 2009